

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

23. (New) A mobile communication system, comprising:

a mobile antenna arranged to receive a plurality of signals from multiple signal paths from each of plural remote antennas of an external source;

an input circuit coupled to receive the plurality of signals from the mobile antenna, the input circuit producing a plurality of input signals including a first input signal from a first remote antenna and a second input signal from a second remote antenna, at least one of the first and at least one of the second input signals corresponding to the same datum; and

a correction circuit coupled to receive a plurality of first estimate signals, a second estimate signal and the first and second input signals, the plurality of first estimate signals corresponding to respective signal paths of the first input signal, the correction circuit producing a first symbol estimate and a second symbol estimate in response to the first and second estimate signals and the first and second input signals.

24. (New) A mobile communication system as in claim 23, further comprising a combining circuit coupled to receive a plurality of first symbol estimates including the first symbol estimate and coupled to receive a plurality of second symbol estimates including the second symbol estimate, the combining circuit producing a first symbol signal in response to the plurality of first symbol estimates and producing a second symbol signal in response to the plurality of second symbol estimates.

25. (New) A mobile communication system as in claim 24, wherein the input circuit, the correction circuit and the combining circuit are formed on a single integrated circuit.

26. (New) A mobile communication system as in claim 24, wherein each of the first and second symbol signals include at least one of a pilot symbol, a transmit power control symbol, a rate information symbol and a data symbol.

27. (New) A mobile communication system as in claim 23, wherein each of the first and second estimate signals include at least one of a pilot symbol, a transmit power control symbol, a rate information symbol and a data symbol.

28. (New) A mobile communication system as in claim 23, wherein a total diversity of each of the first and second symbol signals is at least twice a number of the plural remote antennas.

29. (New) A mobile communication system as in claim 23, wherein each of the first and second input signals is a wideband code division multiple access signal.

30. (New) A mobile communication system as in claim 29, wherein a total diversity of each of the first and second symbol signals is at least twice a number of the plural remote antennas.

31. (New) A mobile communication system as in claim 23, wherein the mobile antenna receives the first and second input signals over a common channel.

32. (New) A mobile communication system as in claim 23, wherein the mobile antenna receives the first and second input signals over a common frequency band.

33. (New) A mobile communication system as in claim 23, wherein the first input signal comprises a data symbol and the second input signal comprises a complex conjugate of the data symbol.

AMENDMENTS TO THE DRAWINGS:

Please add attached new figure 8.